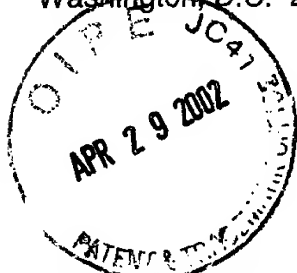


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In the Application of BARNETT et al.

Serial No.: 09/475,704

Art Unit: ~~1633~~ 1635

Filed: December 30, 1999

Examiner: Shin Lin Chen

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

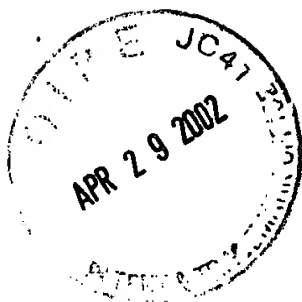
U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
<del>PA</del>	AA-2	4,652,639	March 24, 1987	Stabinsky			
	AB-2	4,861,707	August 29, 1989	Ivanoff et al.			
	AC-2	5,082,767	January 21, 1992	Hatfield et al.			
	AD-2	5,180,247	July 14, 1992	Kniskern et al.			
	AE-2	5,156,949	October 20, 1992	Luciw et al.			
	AF-2	5,688,688	November 18, 1997	Luciw et al.			
	AG-2	5,786,464	July 28, 1998	Seed			
	AH-2	5,792,459	August 11, 1998	Haigwood			
	AI-2	5,795,737	August 18, 1998	Seed et al.			
	AJ-2	5,840,313	November 24, 1998	Vahlne et al.			
	AK-2	5,846,546	December 8, 1998	Hurwitz et al.			
	AL-2	5,859,193	January 12, 1999	Devare et al.			
	AM-2	5,876,724	March 2, 1999	Girard			
	AN-2	5,876,731	March 2, 1999	Sia et al.			
	AO-2	6,090,388	July 18, 2000	Wang			

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FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO	
	AP-2	WO 90/00556	January 25, 1990	<del>PCT</del> WIPO				
	AQ-2	WO 96/30523	October 3, 1996	<del>PCT</del>				
	AR-2	WO 97/48370	December 24, 1997	<del>PCT</del>				
	AS-2	WO 98/12207	March 26, 1998	<del>PCT</del>				
	AT-2	WO 00/29561	May 25, 2000	<del>PCT</del> WIPO				
	AU-2	0 199 301 A1	October 29, 1986	EPO				
	AV-2	0 449 116 B1	October 2, 1991	EPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
BV	AW-2	Barre-Sinoussi et al., "Isolation of a T-lymphotropic retrovirus from a patient at risk for acquired immune deficiency syndrome (AIDS)" <i>Science</i> 220:868-871 (1983)
BV	AX-2	Bolognesi et al., "NIH conference. HIV vaccine development: a progress report" <i>Ann. Int. Med.</i> 8:(7):603-611 (1994) (Moderator: D.F. Hoth)

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Exam. Init.	Ref. Desig.	Description
BV	AY-2	Borsetti et al., "The C-terminal half of the human immunodeficiency virus type 1 Gag precursor is sufficient for efficient particle assembly" <i>J. Virol.</i> <u>72</u> (11):9313-9317 (1998)
	AZ-2	Burton et al., "The antibody response in HIV-1 infection" <i>AIDS</i> 11(Suppl. A):S87-S98 (1997)
	BA-2	Cao et al., "Replication and neutralization of human immunodeficiency virus type 1 lacking the V1 and V2 variable loops of the gp120 envelope glycoprotein" <i>J. Virol.</i> 71(12):9808-9812 (1997)
	BB-2	Cheng-Mayer, "Isolates of human immunodeficiency virus type 1 from the brain may constitute a special group of the AIDS virus" <i>PNAS USA</i> <u>86</u> :8575-8579 (1989)
	BC-2	D'Souza et al., "Evaluation of monoclonal antibodies to human immunodeficiency virus type 1 primary isolates by neutralization assays: performance criteria for selecting candidate antibodies for clinical trials. AIDS Clinical Trials Group Antibody Selection Working Group." <i>J. Infect. Dis.</i> 175:1056-1062 (1997)
	BD-2	Earl et al., "Oligomeric structure of the human immunodeficiency virus type 1 envelope glycoprotein" <i>PNAS USA</i> <u>87</u> :648-652 (1990)
	BE-2	Earl et al., "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins with truncations and deletions expressed by recombinant vaccinia viruses" <i>J. Virol</i> <u>65</u> :31-41 (1991)
	BF-2	Fiore et al. "The biological phenotype of HIV-1 is usually retained during and after sexual transmission" <i>Virol.</i> 204:297-303 (1994)
PV	BG-2	Freed, E.O., "HIV-1 gag proteins: diverse functions in the virus life cycle" <i>Virology</i> <u>251</u> :1-15 (1998)

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Exam. Init.	Ref. Desig.	Description
BV	BH-2	Haas et al., "Codon usage limitation in the expression of HIV-1 envelope glycoprotein" <i>Current Biology</i> 6(3):315-324 (1996)
	BI-2	Haynes et al., "Toward an understanding of the correlates of protective immunity to HIV infection" <i>Science</i> 271:324-328 (1996)
	BJ-2	Hu et al., "Protection of macaques against SIV infection by subunit vaccines of SIV envelope glycoprotein gp160" <i>Science</i> 255:456-459 (1992)
	BK-2	Javaherian et al., "Principal neutralizing domain of the human immunodeficiency virus type 1 envelope protein" <i>PNAS</i> 86:6786-6772 (1989)
	BL-2	Jefferis et al., "Antigenicity of truncated forms of the human immunodeficiency virus type 1 envelope glycoprotein" <i>J. of Gen. Virol.</i> 77:1403-1410 (1996)
	BM-2	Kang et al., "Evidence for non-V3-specific neutralizing antibodies that interfere with gp120/CD4 binding in human immunodeficiency virus 1-infected humans" <i>PNAS USA</i> 88:6171-6175 (1991)
	BN-2	Kwong et al., "Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody" <i>Nature</i> 393:648-659 (1998)
	BO-2	Lu et al., "Immunogenicity of DNA vaccines expressing human immunodeficiency virus type 1 envelope glycoprotein with and without deletions in the V1/2 and V3 regions" <i>AIDS Res. Hum. Retroviruses</i> 14(2):151-155 (1998)
	BP-2	Mammano et al., "Role of the major homology region of human immunodeficiency virus type 1 in virion morphogenesis" <i>J. Virol.</i> 68(8):4927-4936 (1994)
RV	BQ-2	Mascola et al., "Two antigenically distinct subtypes of human immunodeficiency virus type 1: viral genotype predicts neutralization serotype" <i>J. Infect. Dis.</i> 169:48-54 (1994)

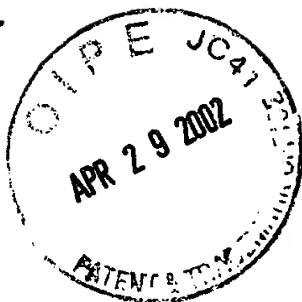
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Exam. Init.	Ref. Desig.	Description
<i>Pr</i>	BR-2	Matsushita et al., "Characterization of a human immunodeficiency virus neutralizing monoclonal antibody and mapping of the neutralizing epitope" <i>J. Virol.</i> 62:2107-2144 (1988)
	BS-2	Matthews "Restricted neutralization of divergent human T-lymphotropic virus type III isolates by antibodies to the major envelope glycoprotein" <i>PNAS USA</i> 83:9709-9713 (1986)
	BT-2	McDougal et al., "Binding of the human retrovirus HTLV-III/LAV/ARV/HIV to the CD4 (T4) molecule: conformation dependence, epitope mapping, antibody inhibition, and potential for idiotypic mimicry" <i>J. Immunol.</i> 137:2937-2944 (1986)
	BU-2	Montefiori et al., "Toward an HIV type 1 vaccine that generates potent, broadly cross-reactive neutralizing antibodies" <i>AIDS Res. Hum. Retroviruses</i> 15(8):689-698 (1999)
	BV-2	Nara et al., "Purified envelope glycoproteins from human immunodeficiency virus type 1 variants induce individual, type-specific neutralizing antibodies" <i>J. Virol.</i> 62:2622-2628 (1988)
	BW-2	Palker et al., "Type-specific neutralization of the human immunodeficiency virus with antibodies to env-encoded synthetic peptides" <i>PNAS USA</i> 85:1932-1936 (1988)
	BX-2	Peng et al., "Enhancement or inhibition of HIV-1 replication by intracellular expression of sense or antisense RNA targeted at different intermediates of reverse transcription" <i>AIDS</i> , 11:587-595 (1997)
	BY-2	Putney et al., "HTLV-III/LAV-neutralizing antibodies to an E. coli-produced fragment of the virus envelope" <i>Science</i> 234:1392-1395 (1986)
<i>Pr</i>	BZ-2	Ratner et al., "Complete nucleotide sequence of the AIDS virus, HTLV-III" <i>Nature</i> 313:277-284 (1985)

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*P. L. Chen*

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Exam. Init.	Ref. Desig.	Description
<i>RM</i>	CA-2	Robert-Guroff et al., "HTLV-III-neutralizing antibodies in patients with AIDS and AIDS-related complex" <i>Nature</i> (London) 316:72-74 (1985)
	CB-2	Rusche et al., "Antibodies that inhibit fusion of human immunodeficiency virus-infected cells bind a 24-amino acid sequence of the viral envelope, gp120" <i>PNAS USA</i> 85:3198-3202 (1988)
	CC-2	Sanchez-Pescador et al., "Nucleotide sequence and expression of an AIDS-associated retrovirus (ARV-2)" <i>Science</i> 227(4686):484-492 (1985)
	CD-2	Stamatatos et al., "Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV type 1 isolate on viral envelope structure, cell entry, and replication" <i>AIDS Res. Hum. Retroviruses</i> 14(13):1129-1139 (1998)
	CE-2	Stamatatos et al., "The ability of an oligomeric human immunodeficiency virus type 1 (HIV-1) envelope antigen to elicit neutralizing antibodies against primary HIV-1 isolates is improved following partial deletion of the second hypervariable region" <i>J. Virol.</i> 72(10):7840-7845 (1998)
	CF-2	Thali et al., "Characterization of conserved human immunodeficiency virus type 1 gp120 neutralization epitopes exposed upon gp120-CD4 binding" <i>J. Virol.</i> 67(7):3978-3988 (1993)
	CG-2	Trkola et al., "Cross-clade neutralization of primary isolates of human immunodeficiency virus type 1 by human monoclonal antibodies and tetrameric CD4-IgG" <i>J. Virol.</i> 69(11):6609-6617 (1995)
	CH-2	Wang et al., "Assembly of HIV GAG-B-galactosidase fusion proteins into virus particles" <i>Virology</i> 200:524-534 (1994)
<i>BS</i>	CI-2	Weiss et al., "Neutralization of human T-lymphotropic virus type III by sera of AIDS and AIDS-risk patients" <i>Nature</i> (London) 316:69-72 (1985)

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Exam. Init.	Ref. Desig.	Description
RV	CJ-2	Weiss et al., "Variable and conserved neutralization antigens of human immunodeficiency virus" <i>Nature</i> (London) 324:572-575 (1986)
	CK-2	Wyatt et al., "Involvement of the V1/V2 variable loop structure in the exposure of human immunodeficiency virus type 1 gp120 epitopes induced by receptor binding" <i>J. Virol.</i> 69(9):5723-5733 (1995)
	CL-2	Wyatt et al., "The antigenic structure of the HIV gp120 envelope glycoprotein" <i>Nature</i> 393:705-711 (1998)
RN	CM-2	Zhu et al., "Genotypic and phenotypic characterization of HIV-1 patients with primary infection" <i>Science</i> 261:1179-1181 (1993)

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